ABSTRACT

Abrasion-resistant coating composition, process for making such coating composition and article coated therewith.

the invention coating composition according comprises:

(A) a component which is the reaction product with oxalic acid of at least one organometallic compound of formula:

$$R^{1}_{.y} \cdot M(OR)_{X^{-}Y}$$
 (I)

wherein, M is a metal R is H or an alkyl radical, R1 is a chelating ligand, x is the valency of the metal, y is an integer at least equal to 1 and x-y is at least equal to 1; and

(B) at least one organoalkoxysilane of formula:

$$R_n^3$$
 Si $(OR^2)_{4-n}$ (II)

wherein, R² is an alkyl radical, R³ is an epoxidized alkyl group and n is an integer from 1 to 3 or a mixture of the organoalkoxysilane of formula (II) with an alkoxysilane of formula (II')

$$R'_{n'}$$
 Si(OR")_{4-n'} (II')

wherein n' is an integer from 0 to 3,

R" is H, an alkyl radical or an alkoxyalkyl radical, and

R' is a vinyl, (meth)acryl, aromatic, cyclic or aliphatic alkyl radical.

Application-for-making-abrasion-resistant-coating on plastic _ophtalmic_lenses.